CLAIMS

1	1.	An air flow control system comprising,
2		a lightweight headgear structure,
3		a fan mounted to said headgear structure to generate air flow around
4	said headge	ear structure,
5		air flow monitoring means mounted to said headgear structure to
6	monitor the	air flow adjacent to said headgear structure.
1	2.	The system recited in claim 1 including,
2		a power supply connected to supply power to said fan.
1	3.	The system recited in claim 1 wherein,
2		said air flow monitoring system is a mechanical apparatus.
1	4.	The system recited in claim 1 wherein,
2		said air flow monitoring system is an electrical apparatus.
1	5.	The system recited in claim 1 wherein,
2		said power supply comprises a battery.
1	6.	The system recited in claim 1 including,
2		a shroud adapted for covering said headgear structure.
1	7.	The system recited in claim 2 including,
2		first indicia means connected with said air flow monitoring means to
3	provide an in	dication of a predetermined operating condition thereof.

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1	8.	The system recited in claim 7 wherein,	
2		said first indicia means comprises a light emitting diode.	
1	9.	The system recited in claim 2 including,	
2		second indicia means connected to said power supply to provide an	
3	indication of	a predetermined operating condition thereat.	
1	10.	The system recited in claim 9 wherein,	
2		said second indicia means comprises a light emitting diode.	
1	11.	The system recited in claim 3 wherein,	
2		said air flow monitoring means includes a pivotally mounted arm which	
3	is selectively	positioned by an air flow around said headgear structure.	
1	12.	The system recited in claim 11 including,	
2		a reference magnet mounted to said headgear structure adjacent to	
3	said arm,		
4		a positioning magnet mounted on said arm and adapted to interact with	
5	said positioni	ing magnet to locate said arm.	
1	13.	The system recited in claim 12 including.	
2		a Hall-effect device mounted on said headgear structure,	
3		a sensing magnet mounted on said arm to selectively alter the	
4	operation of said Hall-effect device as a function of said arm.		

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1	14.	The system recited in claim 4, wherein,	
2		said air flow monitoring system includes a current sensing device for	
3	determining	g the amount of current supplied to said fan.	
1	15.	The system recited in claim 14 including,	
2		voltage regulator means for supplying a relatively fixed voltage to said	
3	current sensing device, and		
4		a sensing circuit connected to said current sensing means for detecting	
5	an excessive current in said current sensing mean.		
1	16.	The system recited in claim 15 wherein,	
2		said sensing circuit includes an operational amplifier.	
1	17.	The system recited in claim 3 including,	
2		a voltage detect circuit connected to a power supply to detect the output	
3	level therefr	om.	
1	18.	The system recited in claim 4 wherein,	
2		said air flow monitoring system includes	
3		a voltage sensing device for determining the amount of voltage supplied	
4	to said fan.		
1	19.	The system recited in claim 18 including,	
2		a current controlling means for supplying a relatively fixed current to	
3	said voltage sensing device.		

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- 1 20. The system recited in claim 5 including,
- 2 a battery voltage monitoring means to monitor the voltage level
- 3 produced by said battery.